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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|----------------------------|----------------------|----------------------|-------------------------|------------------|--|
| 10/089,292 | 08/28/2002 | Hon Mun Ng | 8737-000010 9370 | | |
| 27572 7 | 590 06/15/2004 | | EXAMINER | | |
| HARNESS, I | DICKEY & PIERCE, P.I | L1, BAO Q | | | |
| P.O. BOX 828 BLOOMFIELI | D HILLS, MI 48303 | ART UNIT | PAPER NUMBER | | |
| | , | | 1648 | | |
| | | | DATE MAILED: 06/15/2004 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application N | lo. | Applicant(s) | | | | |
|--|---|---------------------|---|--------------|--------|--|--|--|
| Office Action Summary | | 10/089,292 | | NG ET AL. | | | | |
| | | Examiner | | Art Unit | | | | |
| | | Bao Qun Li | | 1648 | | | | |
| | The MAILING DATE of this communication | | ver sheet with the c | | ddress | | | |
| Period for Reply | | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | | |
| Status | | | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 2 | 25 February 2003. | | | | | | |
| 2a) <u></u> | This action is FINAL . 2b) | This action is non- | final. | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposition of Claims | | | | | | | | |
| 4) ☐ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-33 are subject to restriction and/or election requirement. | | | | | | | | |
| Applicati | on Papers | | | | | | | |
| 9)[| The specification is objected to by the Exa | miner. | | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| Priority u | ınder 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| Attachmen | t(s) | | | | | | | |
| 1) Notice | e of References Cited (PTO-892) | 4) | Interview Summary | | | | | |
| 3) Inform | e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date | B/08) 5) | Paper No(s)/Mail Da Notice of Informal P Other: | | O-152) | | | |

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DETAILED ACTION

Claims 1-33 are pending.

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4, 13-17, 22-25, 32-33, drawn to an isolated peptide of SEQ ID NO: 2, a fusion protein, a composition, a kit comprising the peptide, and a method of making the same. Group II, claim(s) 5-6, 8-12, drawn to a purified nucleic acid molecule comprising a DNA sequence of SEQ ID NO: 2 and a method of using the nucleic acid molecule.

Group III, claim(s) 7, drawn to a nucleic acid molecule comprising SEQ ID NO: 3.

Group IV, claim(s) 18-21 drawn to a method for determining the HEV antibodies.

Group V, claim(s) 26-31, drawn to a method and a kit of detecting the presence of an HEV antigen.

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the technical feature of the current invention is directed to a peptide comprising the amino acid sequence of SEQ ID NO: 2 or a homology thereof as well as method of making the same. However, this technical feature is already disclosed by the prior art as evidenced by Reyes et al. (US Patent No. 5,686,239A). In this patent, Reyes et al discloses a Hepatitis E antigen peptide and a method of making a peptide comprising a sequence having 100% identical to the claimed SEQ ID NO: 2. Therefore, the claims lack unity that links all claims under the same unique technical feature.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Qun Li whose telephone number is 571-272-0904. The examiner can normally be reached on 7:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone numbers for the organization where this application or proceeding is assigned are 571-272-1600 for regular communications and 703-308-4242 for After Final communications.

2. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Qun Li June 10, 2004

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